

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| Substitute for form 1449A/PTO<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(use as many sheets as necessary)</i> |                       |   |                                 | <b>Complete if Known</b>                           |   |        |
|---|-----------------------|---|---------------------------------|--|---|--------|
|   |                       |   |                                 | Application Number                                 | 10/616,307  |        |
|   |                       |   |                                 | Filing Date  | July 10, 2003   |        |
|   |                       |   |                                 | First Named Inventor                               | KIMCHY Yoav et al   |        |
|   |                       |   |                                 | Art Unit   | 3737  |        |
| Examiner Name   | MEHTA Parikha Solanki |   |                                 |  |   |        |
| Sheet   | 1                     | of  | 5                               | Attorney Docket Number                             | 25855   |        |
| <b>U.S. PATENT DOCUMENTS</b>  |                       |   |                                 |  |   |        |
| Examiner Initials*  | Cite No. <sup>1</sup> | Document Number   | Publication Date<br>DD-MMM-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |        |
|   |                       | Number-Kind Code <sup>2</sup> (if known)  |                                 |  |   |        |
|   | 1                     | 2004/0081623  | 29-Apr-2002                     | Eriksen et al.                                     |   |        |
|   | 2                     | 2005/0215889  | 29-Sep-2005                     | Patterson II                                       |   |        |
|   | 3                     | 2007/0156047  | 05-Jul-2007                     | Nagler et al.                                      |   |        |
|   | 4                     | 2008/0260637  | 23-Oct-2008                     | Dickman  |   |        |
|   | 5                     | 2005/0253073  | 17-Nov-2005                     | Joram et al.                                       |   |        |
|   | 6                     | 2005/0266074  | 01-Dec-2005                     | Zilberstein et al                                  |   |        |
|   | 7                     | 2008/0042067  | 21-Feb-2008                     | Rousso et al.                                      |   |        |
|   | 8                     | 2008/0128626  | 05-Jun-2008                     | Rousso et al.                                      |   |        |
|   | 9                     | 2009/0190807  | 30-Jul-2009                     | Rousso et al.                                      |   |        |
|   | 9A                    | 2002/0188197  | 12-Dec-2002                     | Bishop et al.                                      |   |        |
|   | 10                    | 5,386,446   | 31-Jan-1995                     | Fujimoto et al.                                    |   |        |
|   | 10A                   | 5,803,914   | 08-Sep-1998                     | Ryals et al.                                       |   |        |
|   | 11                    | 6,484,051   | 19-Nov-2002                     | Daniel   |   |        |
|   | 12                    | 6,490,476   | 03-Dec-2002                     | Townsend et al.                                    |   |        |
|   | 13                    | 6,771,802   | 03-Aug-2004                     | Patt et al.  |   |        |
|   | 14                    | 7,142,634   | 28-Nov-2006                     | Engler et al.                                      |   |        |
|   | 15                    | 5,695,500   | 09-Dec-1997                     | Taylor et al.                                      |   |        |
|   | 16                    | 6,239,438   | 29-May-2001                     | Schubert   |   |        |
| <b>FOREIGN PATENT DOCUMENTS</b>   |                       |   |                                 |  |   |        |
| Examiner Initials*  | Cite No. <sup>1</sup> | Foreign Patent Documents  | Publication Date<br>DD-MMM-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures Appear | T<br>6 |
|   |                       | Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known) |                                 |  |   |        |
|   | 17                    | WO 00/10034   | 24-Feb-2000                     | Prato et al.                                       |   |        |
|   | 17A                   | WO 2008/075362  | 26-Jun-2008                     | Ben-Haim et al.                                    |   |        |
|   | 18                    | EP 0887661  | 30-Dec-1998                     | Difilippo et al.                                   |   |        |
|   |                       |   |                                 |  |   |        |
|   |                       |   |                                 |  |   |        |
|   |                       |   |                                 |  |   |        |
|   |                       |   |                                 |  |   |        |
|   |                       |   |                                 |  |   |        |
|   |                       |   |                                 |  |   |        |
|   |                       |   |                                 |  |   |        |
|   |                       |   |                                 |  |   |        |
|   |                       |   |                                 |  |   |        |
| Examiner Signature  | /Parikha Mehta/       |   |                                 | Date Considered                                    | 07/18/2010  |        |

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.

Include copy of copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional).<sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).<sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.<sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. this collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.M./

PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

|   |                       |   |   |                          |                       |
|---|-----------------------|---|---|--------------------------|-----------------------|
| Substitute for form 1449A/PTO<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(use as many sheets as necessary)</i> |                       |   |   | <b>Complete if Known</b> |                       |
|   |                       |   |   | Application Number       | 10/616,307            |
|   |                       |   |   | Filing Date              | July 10, 2003         |
|   |                       |   |   | First Named Inventor     | KIMCHY Yoav et al     |
|   |                       |   |   | Group Art Unit           | 3737                  |
|   |                       |   |   | Examiner Name            | MEHTA Parikha Solanki |
| Sheet   | 2                     | Of  | 5 | Attorney Docket Number   | 25855                 |
| <b>OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS</b>  |                       |   |   |                          |                       |
| Examiner Initials   | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published. |   |                          | T <sup>2</sup>        |
|   | 19                    | Communication Pursuant to Article 94(3) EPC Dated 21 October 2009 From the European Patent Office Re.: Application No. 02716285.8.  |   |                          |                       |
|   | 20                    | Notice of Allowance Dated 17 September 2009 From the US Patent and Trademark Office Re.: Application No. 10/533,568.  |   |                          |                       |
|   | 21                    | Official Action Dated 01 September 2009 From the US Patent and Trademark Office Re.: Application No. 11/794,799.  |   |                          |                       |
|   | 22                    | Official Action Dated 02 July 2004 From the US Patent and Trademark Office Re.: Application No. 09/641,973.   |   |                          |                       |
|   | 23                    | Official Action Dated 02 September 2009 From the US Patent and Trademark Office Re.: Application No. 10/343,792.  |   |                          |                       |
|   | 24                    | Official Action Dated 11 August 2009 From the US Patent and Trademark Office Re.: Application No. 09/641,973.   |   |                          |                       |
|   | 25                    | Official Action Dated 15 September 2009 From the US Patent and Trademark Office Re.: Application No. 10/616,307.  |   |                          |                       |
|   | 26                    | Official Action Dated 15 September 2009 From the US Patent and Trademark Office Re.: Application No. 10/836,223.  |   |                          |                       |
|   | 27                    | Official Action Dated 16 September 2009 From the US Patent and Trademark Office Re.: Application No. 09/727,464.  |   |                          |                       |
|   | 28                    | Official Action Dated 21 September 2009 From the US Patent and Trademark Office Re.: Application No. 11/798,017.  |   |                          |                       |
|   | 29                    | Official Action Dated 28 August 2009 From the US Patent and Trademark Office Re.: Application No. 10/240,239.   |   |                          |                       |
|   | 30                    | Official Action Dated 30 October 2009 From the US Patent and Trademark Office Re.: Application No. 11/980,690.  |   |                          |                       |
|   | 31                    | Response Dated 10 December 2009 to Official Action of 11 August 2009 From the US Patent and Trademark Office Re.: Application No. 09/641,973.   |   |                          |                       |
|   | 32                    | Response Dated 12 October 2009 to Notice of Allowance of 16 July 2009 From the US Patent and Trademark Office Re.: Application No. 12/084,559.  |   |                          |                       |
|   | 33                    | Response Dated 14 October 2009 to Official Action of 14 May 2009 From the US Patent and Trademark Office Re.: Application No. 11/656,548.   |   |                          |                       |
| Examiner Signature  | /Parikha Mehta/       |   |   | Date Considered          | 07/26/2010            |

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional).

<sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

<sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

<sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. this collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.M./

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

|   |                          |   |   |                          |                   |
|---|--------------------------|---|---|--------------------------|-------------------|
| Substitute for form 1449A/PTO<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(use as many sheets as necessary)</i> |                          |   |   | <b>Complete if Known</b> |                   |
|   |                          |   |   | Application Number       | 10/616,307        |
|   |                          |   |   | Filing Date              | 10/7/2003         |
|   |                          |   |   | First Named Inventor     | KIMCHY Yoav et al |
|   |                          |   |   | Art Unit                 | 3737              |
| Examiner Name   | MEHTA Parikha Solanki    |   |   |                          |                   |
| Sheet   | 3                        | Of  | 5 | Attorney Docket Number   | 25855             |
| <b>OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS</b>  |                          |   |   |                          |                   |
| Examiner<br>Initials*   | Cite<br>No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.   |   |                          | T <sup>2</sup>    |
|   | 34                       | Supplementary Partial European Search Report and the European Search Opinion Dated 16 October 2009 From the European Patent Office Re.: Application No. 06756259.5.   |   |                          |                   |
|   | 35                       | Moore et al. "Quantitative Multi-Detector Emission Computerized Tomography Using Iterative Attenuation Compensation", Journal of Nuclear Medicine, XP002549083, 23(8): 706-714, August 1982. Abstract, P.707, Section "The Multi-Detector Scanner", First §.    |   |                          |                   |
|   | 36                       | Qi et al. "Resolution and noise Properties of MAP Reconstruction for Fully 3-D PET", IEEE Transactions on Medical Imaging, XP002549082, 19(5): 493-506, May 2000. P.493, Col.2, Lines 10-21, P.495, Col.1, Last §.  |   |                          |                   |
|   | 37                       | Wilson et al. "Non-Stationary Noise Characteristics for SPECT Images", Proceedings of the Nuclear Science Symposium and Medical Imaging Conference, Santa Fe, CA, USA, 2-9 November 1991, XP010058168, P.1736-1740, 02 November 1991. P.1736, Col.2, Lines 4-6. |   |                          |                   |
|   | 38                       | Appeal Brief Dated 19 January 2010 to Notice of Appeal of 16 November 2009 From the US Patent and Trademark Office Re.: Application No. 10/616,301.   |   |                          |                   |
|   | 39                       | Notice of Allowance Dated 23 November 2009 From the US Patent and Trademark Office Re.: Application No. 12/084,559.   |   |                          |                   |
|   | 40                       | Notice of Appeal and Pre-Appeal Brief Dated 04 January 2010 to Official Action of 02 September 2009 From the US Patent and Trademark Office Re.: Application No. 10/343,792.  |   |                          |                   |
|   | 41                       | Official Action Dated 01 March 2010 From the US Patent and Trademark Office Re.: Application No. 11/794,799.  |   |                          |                   |
|   | 42                       | Official Action Dated 02 March 2010 From the US Patent and Trademark Office Re.: Application No. 10/836,223.  |   |                          |                   |
|   | 43                       | Official Action Dated 02 March 2010 From the US Patent and Trademark Office Re.: Application No. 11/980,617.  |   |                          |                   |
|   | 44                       | Official Action Dated 08 December 2009 From the US Patent and Trademark Office Re.: Application No. 11/132,320.   |   |                          |                   |
|   | 45                       | Official Action Dated 08 January 2010 From the US Patent and Trademark Office Re.: Application No. 11/656,548.  |   |                          |                   |
| Examiner<br>Signature   | /Parikha Mehta/          |   |   | Date<br>Considered       | 07/26/2010        |

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.

Include copy of copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional).<sup>2</sup> See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).<sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.<sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. this collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.M./

|   |                       |   |   |                          |                       |
|---|-----------------------|---|---|--------------------------|-----------------------|
| Substitute for form 1449A/PTO<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(use as many sheets as necessary)</i> |                       |   |   | <b>Complete if Known</b> |                       |
|   |                       |   |   | Application Number       | 10/616,307            |
|   |                       |   |   | Filing Date              | July 10, 2003         |
|   |                       |   |   | First Named Inventor     | KIMCHY Yoav et al     |
|   |                       |   |   | Group Art Unit           | 3737                  |
|   |                       |   |   | Examiner Name            | MEHTA Parikha Solanki |
| Sheet   | 4                     | Of  | 5 | Attorney Docket Number   | 25855                 |
| <b>OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS</b>  |                       |   |   |                          |                       |
| Examiner Initials   | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.   |   |                          | T <sup>2</sup>        |
|   | 46                    | Official Action Dated 11 March 2010 From the US Patent and Trademark Office Re.: Application No. 11/607,075.  |   |                          |                       |
|   | 47                    | Official Action Dated 23 February 2010 From the US Patent and Trademark Office Re.: Application No. 09/641,973.   |   |                          |                       |
|   | 48                    | Response Dated 14 January 2010 to Official Action of 15 September 2009 From the US Patent and Trademark Office Re.: Application No. 10/836,223.   |   |                          |                       |
|   | 49                    | Response Dated 21 January 2010 to Official Action of 21 September 2009 From the US Patent and Trademark Office Re.: Application No. 11/798,017.   |   |                          |                       |
|   | 50                    | Response Dated 22 February 2010 to Communication Pursuant to Article 94(3) EPC of 21 October 2009 From the European Patent Office Re.: Application No. 02716285.8.  |   |                          |                       |
|   | 51                    | Response Dated 28 December 2009 to Official Action of 28 August 2009 From the US Patent and Trademark Office Re.: Application No. 10/240,239.   |   |                          |                       |
|   | 52                    | Response Dated 30 December 2009 to Official Action of 01 September 2009 From the US Patent and Trademark Office Re.: Application No. 11/794,799.  |   |                          |                       |
|   | 53                    | Response Dated 30 December 2009 to Official Action of 30 October 2009 From the US Patent and Trademark Office Re.: Application No. 11/980,690.  |   |                          |                       |
|   | 54                    | Supplementary Partial European Search Report and the European Search Opinion Dated 15 December 2009 From the European Patent Office Re.: Application No. 06832278.3.  |   |                          |                       |
|   | 55                    | Gilland et al. "A 3D Model of Non-Uniform Attenuation and Detector Response for Efficient Iterative Reconstruction in SPECT", Physics in Medicine and Biology, XP002558623, 39(3): 547-561, March 1994. P.549-550, Section 2.3 'Active Voxel Reconstruction', P.551, Lines 4-8.   |   |                          |                       |
|   | 56                    | Gilland et al. "Simultaneous Reconstruction and Motion Estimation for Gated Cardiac ECT", IEEE Transactions on Nuclear Science, XP011077797, 49(5): 2344-2349, 01 October 2002. P.2344, Section 'Introduction', First §.  |   |                          |                       |
|   | 57                    | Kadmas et al. "Static Versus Dynamic Teboroxime Myocardial Perfusion SPECT in Canines", IEEE Transactions on Nuclear Science, 47(3): 1112-1117, June 2000.  |   |                          |                       |
|   | 58                    | Li et al. "A HOTLink/Networked PC Data Acquisition and Image Reconstruction System for A High Resolution Whole-Body PET With Respiratory or ECG-Gated Performance", IEEE Nuclear Science Symposium and Medical Imaging Conference, Norfolk, VA, USA, 10-16 November 2002, XP010663724, 2: 1135-1139, 10 November 2002. P.1137, First Col., 2nd §. |   |                          |                       |
| Examiner Signature  | /Parikha Mehta/       |   |   | Date Considered          | 07/26/2010            |

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.

Include copy of copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional).

<sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

<sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

<sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.M./

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.M./